



Pediatric Innovation Retreat

"Advancing pediatric research, technology development, and commercial translation"

Friday, July 13, 2018 · Alumni Hall, University of Pittsburgh

- 7:00 am - 8:00 am **Registration and Continental Breakfast**
- 8:00 am - 8:15 am **Welcome and Introductions**
William R. Wagner, PhD, Director, McGowan Institute, Professor of Surgery, Bioengineering and Chemical Engineering, University of Pittsburgh
- 8:15 am - 11:30 am **Session #1 - Game Changing Innovations**
Moderator: George Gittes, MD, Benjamin R. Fisher Chair of Pediatric Surgery and Surgeon-in-Chief, Director, Pediatric Surgical Research, Professor, Department of Surgery, University of Pittsburgh School of Medicine
- 8:15 am - 8:40 am **Inhibiting Distal Biochemical Pathway Reactions: A Novel Therapeutic Chaperone Strategy for Inherited Metabolic Disorders**
Al-Walid Mohsen, PhD, Department of Pediatrics, Children's Hospital of Pittsburgh of UPMC
- 8:40 am – 9:05 am **Biosensors to Detect Bloodstream Infections in Infants**
Neal J. Thomas, MD, MSc, Associate Dean for Clinical Research, Pennsylvania State University College of Medicine, Professor of Pediatrics and Public Health Sciences, Division of Pediatric Critical Care Medicine, Penn State Children's Hospital
and
Pak Kin Wong, PhD, Fellow of RSC, SLAS and AIMBE; Professor of Biomedical Engineering, Mechanical Engineering and Surgery; Director, BME Program, The Pennsylvania State University
- 9:05 am – 9:30 am **Surgical Magnification for Pediatric Blindness**
Matt Maltese, PhD, Director of Biomechanics Research, Department of Anesthesiology and Critical Care Medicine, Children's Hospital of Philadelphia (CHOP) and Senior Fellow, CHOP's Center for Injury Research and Prevention
- Technology Teaser
9:30 am – 9:35 am **Genetic Engineering of Breast Milk Cells for Infant Therapy**
Katie Whitehead, PhD, Assistant Professor, Department of Chemical Engineering < Carnegie Mellon University
- Technology Teaser
9:35 am – 9:40 am **Biological Temporary Extracorporeal Live Support for New Born Children with Liver Under Function**
Joerg Gerlach, MD, PhD, Professor, Department of Surgery, University of Pittsburgh
- 9:40 am – 10:00 am **Refreshment Break**
- 10:00 am – 10:25 am **β-receptors Regulate Heart Muscle Cell Endowment and Resilience to Heart Injury**
Bernhard Kuhn, MD, Scholar, Richard King Mellon Foundation Institute for Pediatric Research; Associate Professor and Director of Research in Cardiology, Department of Pediatrics, University of Pittsburgh

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| 10:25 am - 10:50 am | <p>Lymphangiography and Lymphatic Duct Embolization <i>Yoav Dori, MD, PhD, Pediatric Cardiologist and Director of Pediatric Lymphatic Imaging and Interventions and Lymphatic Research, Children's Hospital of Philadelphia</i></p> |
| 10:50 am – 11:15 am | <p>Whole Child: Resilience Following Pediatric Critical Illness <i>Ericka L. Fink, MD, MS, Associate Professor, Critical Care Medicine, Pediatrics, and Clinical and Translational Science Institute, University of Pittsburgh School of Medicine</i></p> |
| Technology Teaser 11:15 am – 11:20 am | <p>Title TBA <i>Ken Nischal, MD, FRCOphth, Chief, Division of Pediatric Ophthalmology, Stratbismus, and Adult Motility, Children's Hospital of Pittsburgh</i></p> |
| Technology Teaser 11:20 am – 11:25 am | <p>Dippin Dots & Chip in Mouth <i>Silva Arslanian, MD, Director, Pediatric Clinical and Translational Research Center, UPMC Richard L. Day Endowed Chair in Pediatrics, Children's Hospital of Pittsburgh</i></p> |
| Technology Teaser 11:25 am – 11:30 am | <p>Title TBA <i>Jon Naft, CPO, Vice President and General Manager, Myomo, Inc.</i></p> |
| 11:30 am - 1:00 pm | <p>Keynote Presentation/Luncheon The FDA's Perspective on the Status and Outlook of Pediatric Technology Regulation, Funding, and Commercialization <i>Vasum Peiris, MD, MPH, FAAP, FACC, FASE, Chief Medical Officer - Pediatrics and Special Populations, Center for Devices and Radiological Health, US Food and Drug Administration</i></p> |
| 1:00 pm - 1:45 pm | <p>Session #2 - Technology Spotlight Designing Context Driven Augmented Reality Experiences for Healthcare <i>Det Ansinn, President and CEO, Brick Simple</i></p> |
| 1:45 pm - 3:15 pm | <p>Session #3 - Bringing Dreams to Reality <i>Moderator: Matt Maltese, PhD, Director of Biomechanics Research, Department of Anesthesiology and Critical Care Medicine, Children's Hospital of Philadelphia (CHOP) and Senior Fellow, CHOP's Center for Injury Research and Prevention</i></p> <p>Dreams are the foundation of science and innovation. Rather than just dreaming about creating game changing innovation and hoping it comes to pass, create a plan that you can use to actually see it become reality. Hear from experienced people who have supported the translation of innovative ideas to real products impacting patient lives.</p> <p>Regulatory Strategy <i>Seth Goldenberg, PhD, Entrepreneur-in-Residence, Philadelphia Pediatric Medical Device Consortium</i></p> <p>Prototype Design and Manufacturing <i>Eric Sugalski, MBA, President and CEO, SmithWise</i></p> <p>Technology Commercialization <i>Donald Taylor, PhD, MBA, MS, Assistant Vice Chancellor, Commercial Translation in the Health Sciences; Founder and Director, sciVelo</i></p> <p>Investment Strategies <i>Vanessa Z. Chan, PhD Professor of Practice, Innovation & Entrepreneurship, Materials Science and Engineering (MSE), University of Pennsylvania</i></p> |
| 3:15 PM | <p>Concluding Comments <i>William R. Wagner, PhD, Director, McGowan Institute, Professor of Surgery, Bioengineering and Chemical Engineering, University of Pittsburgh</i></p> |